

## REMARKS

Claims 1-2 and 6-11 are amended, new claims 12-19 are added, and claims 3-5 are canceled, without prejudice or disclaimer. Claims 1-2 and 6-19 are pending.

The amendments to the specification and claims, and new claims 12-19, are based on the application as originally filed, so it is respectfully submitted that no new matter has been added. In particular, the tabularly arranged or assigned torques, speeds, frictional coefficients, and contact pressing forces, etc. in the controller 7 are supported on page 6, line 18, and page 7 lines 2-3 of the application as originally filed.

In the office action, it is stated that claim 5 was objected to but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Instead, claim 1 has been amended to incorporate the subject matter of claim 5 as well as the intervening claims 3-4, and claims 3-5 have been canceled. Therefore, it is respectfully submitted that claim 1, as amended, is allowable.

In the office action, claims 6-11 were rejected under 35 U.S.C. § 112, second paragraph. Claims 6-11 have been amended in a manner believed to overcome the rejection under 35 U.S.C. § 112, second paragraph, in that the tabularly arranged or assigned torques, speeds, frictional coefficients, and contact pressing forces, etc. in the controller 7 more clearly define the substrate-specific frictional coefficient  $\mu$  and its relationship with the torque, contact pressing force, speeds, etc., and to more clearly set forth and define the curve of maximum power and different working points.

Therefore, reconsideration and withdrawal of the rejection of claims 6-11 under 35 U.S.C. § 112, second paragraph are respectfully requested.

In the office action, claims 1-4 and 10 were rejected under 35 U.S.C. § 103(a) in view of U.S. Patent Number 3,259,023 to Rieger and U.S. Patent Number 5,558,476 to Uchida et al.

The allowable subject matter of claim 5 and intervening claims have been incorporated into claims 1 and 10.

Since the allowable subject matter of claim 5 is present in amended claims 1 and 10, claims 1 and 10 are allowable over the cited art.

Claims 2, 6-9, and 11 depend from independent claims 1 and 10, as amended, and so includes the recitation of amended claims 1 and 10, respectively. Therefore, for the reasons set forth above, claims 2, 6-9, and 11 are also patentable over the cited art.

Therefore, claims 1-2, 6-9, and 11 are patentable over Rieger and Uchida et al., so reconsideration and withdrawal of the rejection of claims 1-2 and 6-11 are respectfully requested.

New independent claim 12 includes the subject matter of claims 1 and 7 as originally filed, new independent claim 16 includes the subject matter of claims 1 and 8 as originally filed, and new independent claim 19 includes the subject matter of claims 10-11 as originally filed. Claims 7-8 and 11 were not rejected on the prior art, so favorable consideration of the corresponding claims 12, 16, and 19 is respectfully requested.

In addition, claims 13-15 recite the subject matter of original claims 2, 6, and 9 but depend from new claim 12; and claims 17-18 recite the subject matter of original claims 2 and 6 but depend from new claim 16.


It is respectfully submitted that new claims 12-19 meet the requirements of 35 U.S.C. § 112, and in particular 35 U.S.C. § 112, second paragraph as applied by the examiner to original claims 6-11.

Entry and favorable consideration of new claims 12-19 are respectfully requested.

Accordingly, entry and approval of the present amendment and allowance of all pending claims are respectfully requested.

In case of any deficiencies in fees by the filing of the present amendment, the Commissioner is hereby authorized to charge such deficiencies in fees to Deposit Account Number 01-0035.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Anthony J. Natoli', with a long horizontal flourish extending to the right.

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